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Design, Inc., 12367 Crosthwaite Circle, Poway, CA 92064 (US).

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(74) Agents: **BECK, George, C.** et al.; Folley & Lardner LLP, 3000 K Street, NW, Suite 600, Washington, DC 20007 (US).

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(71) Applicant (for all designated States except US): **DELTA DESIGN, INC.** [US/US]; 12367 Crosthwaite Circle, Poway, CA 92064 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **TUSTANIWSKYJ, Jerry, Ihor** [US/US]; 26822 Avenida Domingo, Mission Viejo, CA 92691 (US). **BABCOCK, James, Wittman** [US/US]; 1248 Via Sendero Vista, Escondido, CA 92029 (US). **WALDAUF, Alexander, Josef** [DE/DE]; c/o Delta

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(54) Title: SYSTEM AND METHOD FOR ACCELERATING A DEVICE

(57) Abstract: An acceleration device includes an actuator configured to displace a mass in a reciprocating motion at a desired frequency, a mount configured to hold a device, such as an accelerometer device, and at least one spring connecting the mount to the mass. The actuator is used to apply a force to achieve resonance. The actuator may comprise a voice coil motor, wherein the voice coil motor includes a permanent magnet and an armature and wherein said armature comprises part of said mass. The actuator applies a periodic force to the mass. The periodic force may be a sinusoidal force. Preferably, the applied force is aligned with a resulting velocity of the mass. The mount may include a test socket to which the device is electrically connected. The spring may comprises one or more flexure elements. The acceleration device may be used with a handler device to connect and disconnect the device to and from the mount. Optionally, the handler device includes an environmental chamber surrounding the mount.

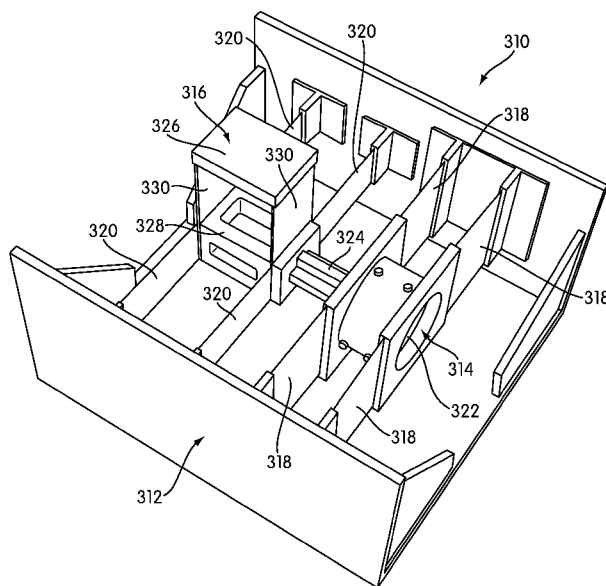


FIG. 10

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